	Application No.	Applicant(s)	
Notice of Allowability	10/507,007	OGAWA ET AL.	
	Examiner	Art Unit	
	ARADHANA SASAN	1615	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED in 1 5) or other appropriate commun RIGHTS. This application is su	his application. If not included ication will be mailed in due cou	ırse. THIS
1. This communication is responsive to the Appeal Brief file	ed on July 31, 2009 and telepho	nic interview conducted on 11/2	<u>3/09</u> .
2. 🛮 The allowed claim(s) is/are <u>1-7,9-12 and 14-22</u> .			
 3. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents ha 	ve been received.		
Certified copies of the priority documents ha	ve been received in Application	No	
Copies of the certified copies of the priority of	documents have been received	in this national stage application	from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requir	ements
 A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which g 			ICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") m	ust be submitted.		
(a) ☐ including changes required by the Notice of Draftspe	erson's Patent Drawing Review	(PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examine Paper No./Mail Date	er's Amendment / Comment or i	n the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			ck) of
 DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMEN 			e the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Info	rmal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948		nmary (PTO-413), Iail Date <u>20091123</u> .	
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date		mendment/Comment	
Examiner's Comment Regarding Requirement for Deposition of Biological Material	t 8. 🛛 Examiner's S	tatement of Reasons for Allowa	nce
Š	9. 🔲 Other		
/Aradhana Sasan/			
Examiner, Art Unit 1615			

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Christopher Korff on November 23, 2009. Please see attached Interview Summary Form PTOL-413 (Paper No. 20091123).

2. The application has been amended as follows:

Replace the text of claim 1 with the following:

Claim 1. (Amended)

A composite powder comprising:

- a) a flaky substrate powder,
- b) seed particles selected from the group consisting of titanium oxide, zinc oxide, alumina, aluminum hydroxide, silica, iron oxide; and
- c) barium sulfate particles or zinc oxide particles;

wherein

- i) the seed particles act as nuclei on the surface of the flaky substrate powder and the barium sulfate particles or the zinc oxide particles adhere to the flaky substrate powder particles through the seed particles, and
- ii) the coverage with barium sulfate particles is 10-70% with respect to the surface area of said substrate powder or the coverage with zinc oxide particles is 40-90% with respect to the surface area of said substrate powder.

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Replace the text of claim 16 with the following:

Claim 16. (Amended)

A method of producing a composite powder comprising a flaky substrate powder, seed particles and adhering barium sulfate particles comprising the steps of:

a) preparing a slurry solution of a flaky substrate powder,

b) separately preparing a solution of seed particles,

c) adding the solution of seed particles to the slurry solution of the flaky substrate

powder,

d) separately preparing a barium ion solution,

e) separately preparing a sulfate ion solution,

f) adding the barium ion solution and the sulfate ion solution separately to the

slurry solution comprising seed particles and the flaky substrate powder,

g) allowing the barium ion solution and the sulfate ion solution to react and form

barium sulfate particles;

wherein

i) the seed particles act as nuclei, and

ii) the barium sulfate particles adhere to the flaky substrate powder particles

through the seed particles.

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Replace the text of claim 17 with the following:

Claim 17. (Amended)

A method of producing a composite powder comprising a flaky substrate powder,

seed particles and adhering zinc oxide particles comprising the steps of:

a) preparing a slurry solution of a flaky substrate powder,

b) separately preparing a solution of seed particles,

c) adding the solution of seed particles to the slurry solution of the flaky substrate

powder,

d) separately preparing a zinc ion solution,

e) separately preparing an alkali aqueous solution,

f) adding the zinc ion solution and the alkali aqueous solution separately to the

slurry solution comprising seed particles and the flaky substrate powder,

g) allowing the zinc ion solution and the alkali aqueous solution to react and form

zinc oxide particles;

wherein

i) the seed particles act as nuclei, and

ii) the zinc oxide particles adhere to the flaky substrate powder particles through

the seed particles.

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Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance: Applicant's representative approved the examiner's amendment of claims 1, 16 and 17 to outline the specific limitations of seed particles, the adherence of barium sulfate or zinc oxide on a flaky substrate powder through the seed particles such that the coverage with barium sulfate particles is 10-70% with respect to the surface area of said substrate powder or the coverage with zinc oxide particles is 40-90 % with respect to the surface area of the flaky substrate powder. The reference Watanabe et al. (US 4,603,047) discloses covering a flaky substrate powder with BaSO₄ or ZnO, however, the coverage of this flaky substrate powder is uniform, i.e., 100% coverage. Watanabe does not discloses adherence of BaSO₄ or ZnO on the flaky substrate powder that is nonuniform, or coverage with barium sulfate particles that is 10-70% with respect to the surface area of said substrate powder, or the coverage with zinc oxide particles that is 40-90% with respect to the surface area of the flaky substrate powder. Watanabe does not disclose the adherence of BaSO₄ or ZnO to the flaky substrate powder through seed particles.

Therefore, the claimed invention is novel and patentably distinct over the prior art of record.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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5:00 pm.

Conclusion

5. Claims 1-7, 9-12, 14-22 are allowed.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aradhana Sasan whose telephone number is (571) 272-9022. The examiner can normally be reached Monday to Thursday from 6:30 am to

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert A. Wax, can be reached at 571-272-0623. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Aradhana Sasan/ Examiner, Art Unit 1615

> /Robert A. Wax/ Supervisory Patent Examiner, Art Unit 1615